Appl. No. 10/510,900; Docket No. NL02 0278US Amdt. dated August 22, 2005 Office Action Response

Amendments to the Claims

1. (Previously Presented) A semiconductor device provided with a circuit, a security layer that covers the circuit, a security element comprising a local area of the security layer, and a sensor, characterized in that:

the security layer comprises embedded magnetic particles, and the sensor is a magnetic sensor, capable of measuring of a magnetic property of the security layer.

- 2. (Original) A semiconductor device as claimed in Claim 1, characterized in that the magnetic sensor is a magnetoresistive sensor, capable of converting the magnetic properties into an actual value of the impedance.
- 3. (Currently Amended) A semiconductor device as claimed in Claim 1, characterized in that the embedded magnetic particles are distributed inhomogeneously in the security layer (53) over the circuit.
- 4. (Original) A semiconductor device as claimed in Claim 1, characterized in that the magnetic particles are superparamagnetic particles embedded in microbeads.
- 5. (Original) A semiconductor device as claimed in Claim 1, characterized in that the magnetic particles comprise a hard-magnetic material.
- 6. (Original) A semiconductor device as claimed in Claim 2, characterized in that the magnetoresistive sensors having an axis of sensitivity substantially parallel to the security layer are shaped as stripes that have a length in a direction substantially perpendicular to the axis of sensitivity.
- 7. (Original) A semiconductor device as claimed in Claim 1, further provided with a memory for storing an initial actual value of the impedance of the security element as a reference value.

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- 8. (Previously Presented) A carrier provided with a semiconductor device as claimed in claim 1.
- 9. (Original) A card reader suitable for a carrier as claimed in Claim 8, characterized in that magnetization means are present in order to generate an external magnetic field that will induce a magnetization in the magnetic particles substantially perpendicular to the security layer.
- 10. (Original) A card reader as claimed in Claim 9, characterized in that a reference sensor is present for measuring the external magnetic field, so that the external magnetic field can be calibrated.
- 11. (Original) A card reader as claimed in Claim 9, characterized in that the magnetization means are part of a degaussing circuit.

Claims 12-18 (Cancelled)